Index to Volume 37

No. 1 J. M. Campanario (Madrid, Spain) Using Citation Classics to Study the Incidence of Serendipity in Scientific Discovery J. Six, Martha Cecilia Bustamante (Orsay, France) Bibliometric Analysis of Publications in Experimental Particle Physics on Cosmic Rays and with Accelerators 25 F. Hjortgaard Christensen, P. Ingwersen (Copenhagen, Denmark) Online Citation Analysis. A Methodological Approach 39 A. L. Rivas, D. Deshler, R. D. Colle, R. N. González, F. W. Quimby (Ithaca, NY, USA) Indicators of Disciplinary Differentiation: Interdisciplinary Linkages and Adoption Rate of **Biological Innovations** 63 C. B. Chidambara Raj (Ithaca, NY, USA) 87 Publications, Cost and a Proposition H. F. Moed, Th. N. van Leeuwen, J. Reedijk (Leiden, The Netherlands) A Critical Analysis of the Journal Impact Factors of Angewandte Chemie and the Journal of the American Chemical Society. Inaccuracies in Published Impact Factors based on Overall Citations 105 J.C. Korevaar, H.F. Moed (Leiden, The Netherlands) Validation of Bibliometric Indicators in the Field of Mathematics 117 L. M. Plaza, M. J. Martin, J. Rey (Madrid, Spain) Scientific Relations between Spain and Central-Eastern European Countries for the Period 1982-1992 131

Short Communications

S. Papadopoulos (New York, NY, USA)

Evaluation of Industrial Research		143
O Persson G Melin (Omea Sweden)		

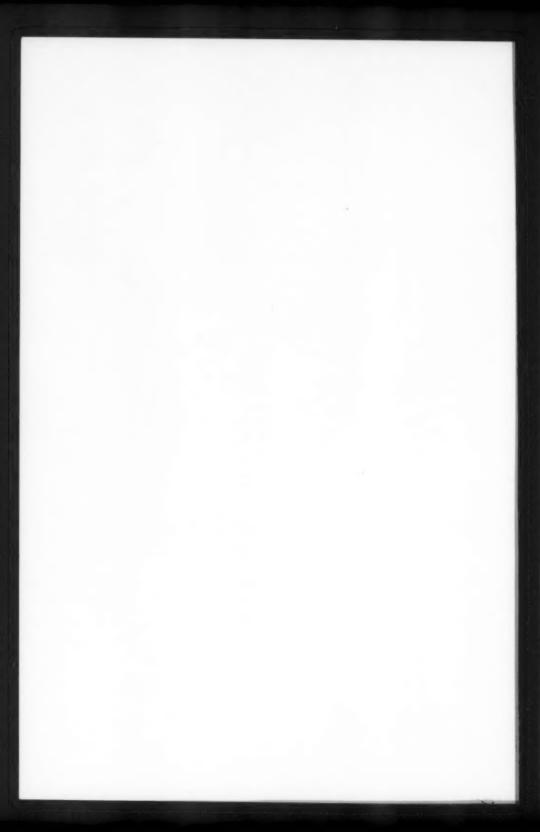
O. Persson, G. Melin (Umea, Sweden)	
Equalization, Growth and Integration of Science	153

A. Uzun, M. E. Özel (Ankara, and Gebze, Turkey)	
Publication Patterns of Turkish Astronomers	159

INDEX TO VOLUME 37

L. H. Breimer (Richmond, Surrey, UK) Age, Sex and Standards of Current Doctoral Theses by Swedish Medical Graduates	
Technical Note	
Zhang Haiqi (Beijing, China) Research Performance in Key Medical Universities in China Observed from the Scientific Productivity	177
No. 2	
A. F. J. van Raan (Leiden, The Netherlands) Introduction to the Proceedings of the Fourth International Conference on Science and Technology Indicators	191
W. Glänzel, H. J. Czerwon (Berlin and Bielefeld, Germany) A New Methodological Approach to Bibliographic Coupling and its Application to the National, Regional and Institutional Level	195
M. Zin, E. Bassecoulard (Nantes and Paris, France) Reassessment of Co-citation Methods for Science Indicators: Effect of Methods Improving Recall Rates	223
F. Niwa, H. Tomizawa (Saitama and Tokyo, Japan) A Trial of General Indicator of Science and Technology: Methodological Study of Overall Estimation of National S&T Activity	245
D. T. Tomov, H. G. Mutafov (Varna and Sofia, Bulgaria) Comparative Indicators of Interdisciplinarity in Modern Science	267
Maria Bordons, Isabel Gómez, M. T. Fernández, M. A. Zulueta (Madrid, Spain), Aida Méndez (Palma de Mallorca, Spain) Local, Domestic and International Scientific Collaboration in Biomedical Research	279
H. M. Artus (Bonn, Germany)	219
Science Indicators Derived from Databases. The Case of the Social Sciences	297
Sybille Hinze, H. Grupp (Karlsruhe, Germany) Mapping of R&D Structures in Transdisciplinary Areas: New Biotechnology in Food Sciences	313
Anne Sigogneau (Paris, France) Between Policy Categories and Research Activities: Reviews and Journals to Describe "Environment" Networks	337
Marie-Angèle de Looze (Grenoble, France) Scientometrics as a Tool for Analysis of the Industrial Relationships of Two Departments in a Major French Apolied Research Institute. 1988-1992	340

Valentina A. Markusova, R. S. Gilyarevskii, A. I. Chernyi (Moscow, Russia), Belver C. Griffith (Philadelphia, USA)	
Information Behavior of Russian Scientists in the "Perestroika" Period. Results of the Questionnaire Survey	361
News	381
Erratum	383
No. 3	
Yang Lin (Norman, OK, USA) Empirical Studies of Negative Political Advertising: A Quantitative Review Using a Method of Combined Citation and Content Analysis	385
G. Lewison (London, England) The Frequencies of Occurrence of Scientific Papers with Authors of Each Initial Letter and Their Variation with Nationality	401
S. Hemlin, M. Gustafsson (Göteborg, Sweden) Research Production in the Arts and Humanities. A Questionnaire Study of Factors Influencing Research Performance	417
G. F. van Caulil, C. A. M. Mombers, F. C. H. D. van den Beemt (Utrecht, The Netherlands) Quantifying the Utilization of Research: The Difficulties and Two Models to Evaluate the Utilization of Research Results	433
Katarina Prpić (Zagreb, Croatia) Scientific Fields and Eminent Scientists' Productivity Patterns and Factors	445
P. Bourke, Linda Butler (Australia) Publication Types, Citation Rates and Evaluation	473
Short Communication	
A. T. Balaban (Bucharest, Roumania) How Should Citations to Articles in High- and Low-Impact Journals be Evaluated, or What is a Citation Worth?	495
Index to Volume 37	499



Author Index

- ARTUS, H. M.: Science Indicators Derived from Databases. The Case of the Social Sciences, 297
- BALABAN, A. T.: How Should Citations to Articles in High -and Low-Impact Journals be Evaluated, or What is a Citation Worth?, 495
- BASSECOULARD, E., see ZITT, M., 223
- BEEMT, VAN DEN, F. C. H. D., see CAULIL, VAN, G. F., 433
- Bordons, Maria; Gómez, Isabel; Fernández, M. T.; Zulueta, M. A.; Méndez, Aida: Local, Domestic and International Scientific Collaboration in Biomedical Research, 279
- BOURKE, P., BUTLER, LINDA: Publication Types, Citation Rates and Evaluation, 473
- BREIMER, L. H.: Age, Sex and Standards of Current Doctoral Theses by Swedish Medical Graduates, 171
- BUSTAMANTE, MARTHA CECILIA, see SIX, J., 25
- BUTLER, LINDA, see BOURKE, P., 473
- CAMPANARIO, J. M.: Using Citation Classics to Study the Incidence of Serendipity in Scientific Discovery, 3
- CAULIL, VAN, G. F., MOMBERS, C. A. M., BEEMT, VAN DEN, F. C. H. D.: Quantifying the Utilization of Research: The Difficulties and Two Models to Evaluate the Utilization of Research Results. 433
- CHERNYI, A. I., see MARKUSOVA, VALENTINA, A., 361
- CHIDAMBARA RAJ, C. B.: Publications, Cost and Proposition, 87
- CHRISTENSEN, F. HJORTGAARD; INGWERSEN, P.: Online Citation Analysis. A Methodological Approach, 39

- COLLE, R. D., see RIVAS, A. L., 63
- CZERWON, H. J., see GLANZEL, W., 195
- DE LOOZE, MARIE-ANGELE, see LOOZE, DE, MARIE-ANGELE, 349
- DESHLER, D., see RIVAS, A. L., 63
- FERNÁNDEZ, M. T. see BORDONS, MARIA, 279
- GILYAREVSKII, R. S., see MARKUSOVA, VALENTINA, A., 361
- GLÂNZEL, W., CZERWON, H. J.: A New Methodological Approach to Bibliographic Coupling and its Application to the National, Regional and Institutional Level, 195
- GÓMEZ, ISABEL, see BORDONS, MARIA, 279
- GONZÁLEZ, R. N., see RIVAS, A. L., 63
- GRIFFITH, BELVER, C., see MARKUSOVA, VALENTINA, A., 361
- GRUPP, H., see HINZE, SYBILLE, 313
- GUSTAFSSON, M., see HEMLIN, S., 417
- HEMLIN, S., GUSTAFSSON, M.: Research Production in the Arts and Humanities. A Questionnaire Study of Factors Influencing Research Performance, 417
- HINZE, SYBILLE; GRUPP, H.: Mapping of R&D Structures in Transdisciplinary Areas: New Biotechnology in Food Sciences, 313
- Ingwersen, P., 266 Christensen, F. Hjortgaard, 39
- KOREVAAR, J. C., MOED, H. F.: Validation of Bibliometric Indicators in the Field of Mathematics, 117
- LEEUWEN, VAN, TH. N., see MOED, H. F., 105

- Lewison, G.: The Frequencies of Occurrence of Scientific Papers with Authors of Each Initial Letter and Their Variation with Nationality, 401
- LIN, YANG: Empirical Studies of Negative Political Advertising: A Quantitative Review Using a Method of Combined Citation and Content Analysis, 385
- LOOZE, DE, MARIE-ANGELE: Scientometrics as a Tool for Analysis of the Industrial Relationships of Two Departments in a Major French Applied Research Institute, 1988-1992, 349
- MARKUSOVA, VALENTINA, A.; GILYAREVSKII, R. S.; CHERNYI, A. I., GRIFFITH, BELVER, C.: Information Behavior of Russian Scientists in the "Perestroika" Period. Results of the Questionnaire Survey, 361
- MARTÍN, M. J., see PLAZA, L. M., 131
- MELIN, G., see PERSSON, O., 153
- MÉNDEZ, AIDA, see BORDONS, MARIA, 279
- MOED, H. F.; LEEUWEN, VAN, TH. N.; REEDUK, J.: A Critical Analysis of the Journal Impact Factors of Angewandte Chemie and the Journal of the American Chemical Society. Inaccuracies in Published Impact Factors based on Overall Citations only, 105
- MOED, H. F., see KOREVAAR, J. C., 117
- MOMBERS, C. A. M., see Caulil, Van, G. F.,
- MUTAFOV, H. G., see TOMOV, D. T., 267
- NIWA, F., TOMIZAWA, H.: A Trial of General Indicator of Science and Technology: Methodological Study of Overall Estimation of National S&T Activity, 245
- ÖZEL, M. E., see UZUN, A., 159
- PAPADOPUOLOS, S.: Evaluation of Industrial Research, 143
- Persson, O., Melin, G.: Equalization, Growth and Integration of Science, 153
- PLAZA, L. M., MARTÍN, M. J., REY, J.: Scientific Relations between Spain and Central-Eastern European Countries for the Period 1982-1992, 131

- PRPIÉ, KATARINA: Scientific Fields and Eminent Scientists' Productivity Patterns and Factors, 445
- QUIMBY, F. W., see RIVAS, A. L., 63
- RAAN, VAN, A. F. J.: Introduction to the Proceedings of the Fourth International Conference on Science and Technology Indicators, 191
- REEDUK, J., see MOED, H. F., 105
- REY, J., see PLAZA, L. M., 131
- RIVAS, A. L., DESHLER, D., COLLE, R. D., GONZÁLEZ, R. N., QUIMBY, F. W.: Indicators of Disciplinary Differentiation: Interdisciplinary Linkages and Adoption Rate of Biological Innovations, 63
- SIGOGNEAU, ANNE: Between Policy Categories and Research Activities: Reviews and Journals to Describe "Environment" Networks, 337
- SIX, J.; BUSTAMANTE, MARTHA CECILIA: Bibliometric Analysis of Publications in Experimental Particle Physics on Cosmic Ray and with Accelerators, 25
- TOMIZAWA, H., see NIWA, F., 245
- Tomov, D. T., MUTAFOV, H. G.: Comparative Indicators of Interdisciplinarity in Modern Science, 267
- Uzun, A., Özel, M. E.: Publication Patterns of Turkish Astronomers, 159
- VAN CAULIL, G. F., see CAULIL, VAN. G. F., 433
- VAN DEN BEEMT, F. C. H. D., see BEEMT, VAN DEN, F. C. H. D., 433
- VAN RAAN, A. F. J., see RAAN, VAN, A. F. J., 191
- ZHANG, HAIQI: Research Performance in Key Medical Universities in China Observed from the Scientific Productivity, 177
- ZITT, M., BASSECOULARD, E.: Reassessment of Co-citation Methods for Science Indicators: Effect of Methods Improving Recall Rates, 223
- ZULUETA, M. A., see BORDONS, MARIA, 279

